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The field-scanning unit is made up of a multivibrator with a discharge tube, a phase inverter and a push-pull output stage. The line impulses are produced in a blocking oscillator, and are fed into the line after being amplified to 180 v.

The sound channel is designed for reception of programs over telephone wires, which are also used to control the center when used under city conditions. The rural center would be equipped with a special sound-accompaniment receiver.

The basic elements of the subscriber's receiver are the line-scanning generator and rectifier.

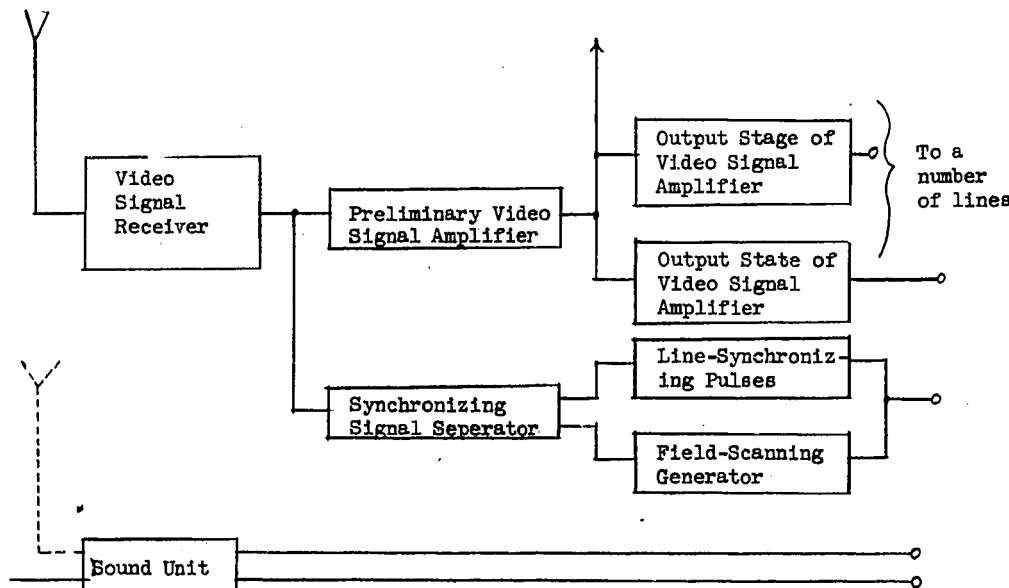
In the four-tube-type receiver, two of the tubes are rectifiers, one tube is used in the line-scanning stage, and the fourth tube is used as a line-scanning discharge tube and an amplifier.

This year, the laboratory plans to conduct experiments in the dissemination of television signals and the control voltages by means of different types of networks. A rural television center will be built for the study of the operating conditions of a wired television system. In equipping this center, underground wires with polyvinyl-chloride insulation will be used.

The laboratory also plans to investigate the problem of combining television with multiple-program radio broadcasting. Successful solution of this problem would enable the owner of a wired-television receiver to listen to any of several radio broadcast programs during interruptions of television-broadcast operations.

The commission of the Ministry of Communications which accepted the experimental television center acknowledged it as original and of outstanding value for further experiments in this field.

Block Diagram of the Wired-Television Center



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